

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number  
**WO 2005/012228 A1**

(51) International Patent Classification<sup>7</sup>: **C07C 225/18**,  
C07D 209/12, 277/82, 277/64, 239/28, 319/06, 309/36,  
C07F 1/08, 15/06, 15/04, G11B 7/24

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(21) International Application Number:  
PCT/EP2004/051447

(22) International Filing Date: 12 July 2004 (12.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03102256.9 22 July 2003 (22.07.2003) EP  
03102718.8 8 September 2003 (08.09.2003) EP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

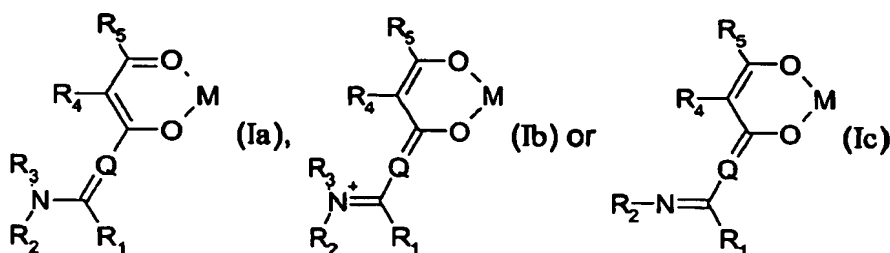
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: O-COORDINATED METAL CHELATES AND THEIR USE IN OPTICAL RECORDING MEDIA HAVING HIGH STORAGE CAPACITY



(57) Abstract: The invention relates to novel optical recording materials that comprise specific and in some cases novel diketone enamines or metal chelates thereof and that have excellent recording and playback quality especially at a wavelength of 350-500 nm. The invention accordingly relates to an optical recording medium comprising a substrate, a recording

layer and optionally a reflecting layer, wherein the recording layer comprises a compound of formula (I), wherein M is hydrogen, aluminium or, preferably, a transition metal, which may in addition be coordinated with one or more further ligands and/or, for balancing out an excess charge, where applicable, may have an electrostatic interaction with one or more further ions inside or outside the coordination sphere, but M in formulae (Ib) and (Ic) is not hydrogen, Q is C-H, N or C-R<sub>6</sub>, it being possible for the stereochemistry of the C=Q double bond to be either E or Z. For the exact definitions of R<sub>1</sub> to R<sub>6</sub> reference should be made to the description. Also claimed are the novel compounds, especially tetracoordinated chelates, and a process for the preparation thereof.

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